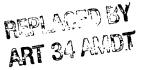
15

20

## WHAT IS CLAIMED IS:



- 1. A plant-growing apparatus comprising:
- 5 (a) a plurality of rotatable plant-growing modules, each said module comprising a cylindrical structure for holding plant-growing containers, such that said plants grow in said containers radially inwardly of said cylindrical structure toward a light source inside said cylindrical structure and roots of said plants grow radially outwardly of said cylindrical structures;
  - (b) module support means for supporting each said module and for rotating each said module about its longitudinal axis in a substantially horizontal position;
  - (c) module moving means for conveying said module support means and modules along a path between two separated positions; and
  - (d) water-feeding means for feeding water to said plants.
- An apparatus according to claim 1 wherein said two separated positions are a vertically higher position and a vertically lower position.
  - 3. An apparatus according to claim 1 wherein said two separated positions are two horizontally separated positions.

15

20

- 4. An apparatus according to claim 2 wherein said water feeding means is a trough in which said plant-growing containers are brought into contact with water at said vertically lower position.
- 5 5. An apparatus according to claim 1 wherein said water feeding means is a trough supported on said module support means for watering said plants as said module rotates.
- 6. An apparatus according to claim 1 wherein said module moving means comprises a plurality of sprocket wheels and an endless chain.
  - 7. An apparatus according to claim 1 wherein said module support means comprises a pair of spaced-apart rotatable members.
  - 8. An apparatus according to claim 7 wherein said cylindrical structures have rims adapted to engage said rotatable members.
  - 9. A method of growing plants comprising the steps of:
    - (a) placing plant material in a growing medium;
- (b) placing said medium in a rotatable growing apparatus such that plants grow radially inwardly of said apparatus toward a light;
  - (c) illuminating a light source in said rotatable growing apparatus;
- 30 (d) rotating said rotatable growing apparatus about said light source;

- (e) moving said rotatable growing apparatus along a path between two separated positions; and
- (f) delivering water to said growing medium.

5

- 10. A method according to claim 9 wherein said two separated positions are a vertically higher position and a vertically lower position.
- 10 11. A method according to claim 9 wherein said two separated positions are two horizontally separated positions.